

1 1. A two-phase gel composition comprising:

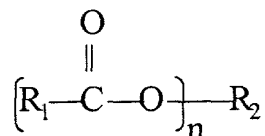
2 a gelled ester composition comprising a mixture of an ester compound and a polymer compound
3 selected from the group consisting of triblock copolymers, star polymers, radial polymers, multi-block
4 copolymers, and a combination thereof, the gelled ester composition having a viscosity η_1 ; and

5 a hydrophobic, non polar solvent, the solvent having a viscosity η_2 , wherein the two-phase gel
6 composition is substantially free of phosphate compounds and has a viscosity η which is greater than or
7 equal to η_1 and which is greater than or equal to η_2 .

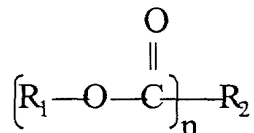
8 2. The two-phase gel composition of claim 1, wherein the two-phase gel composition has a viscosity
9 which is substantially greater than or equal to the sum of η_1 and η_2 .

10 3. The two-phase gel composition of claim 1, further comprising a diblock copolymer, wherein the
11 gelled ester composition is substantially free of mineral oils.

12 4. The two-phase gel composition of claim 1, wherein the ester compound is represented by the
13 following formulas:



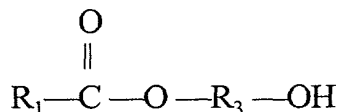
3 and



4 wherein n=1, 2, 3, and 4, and R₁ includes hydrogen, hydrocarbyl, phenyl, methoxyphenyl,
5 alkylphenyl, substituted alkyl, or substituted phenyl; and

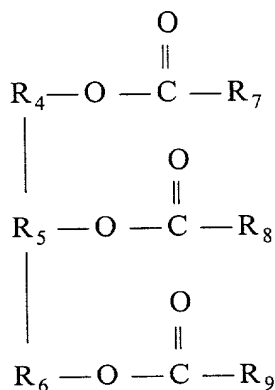
6 R₂ includes hydrogen, hydrocarbyl, phenyl, methoxyphenyl, alkylphenyl, substituted alkyl,
7 substituted phenyl, alkylene, phenylene, substituted alkylene, or substituted phenylene.

1 5. The two-phase gel composition of claim 1, wherein the ester compound is represented by the
2 following formula:



3 wherein R₁ includes hydrogen, hydrocarbyl, phenyl, methoxyphenyl, alkylphenyl, substituted
4 alkyl, or substituted phenyl, and R₃ includes alkylene, phenylene, substituted alkylene, or substituted
5 phenylene.

1 6. The two-phase gel composition of claim 1, wherein the ester compound is represented by the
2 following formula:



wherein R_4 , R_5 , and R_6 individually include alkylene, phenylene, substituted alkylene, or substituted phenylene, and R_7 , R_8 and R_9 individually include hydrogen, hydrocarbyl, phenyl, methoxyphenyl, alkylphenyl, substituted alkyl, or substituted phenyl.

7. The two-phase gel composition of claim 1, wherein the ester compound is selected from the group consisting of isopropyl myristate, isopropyl palmitate, C_{12} - C_{15} alkyl benzoate, octyl methoxycinnamate, octyl dodecyl neopentanoate, propylene glycol dicaprylate/caprate, jojoba oil, and isostearyl neopentanoate.

8. The two-phase gel composition of claim 3, wherein the diblock copolymer is selected from the group consisting of styrene-ethylene/propylene copolymers, styrene-ethylene/butadiene copolymers, styrene-isoprene copolymers, styrene-butadiene copolymers, and a mixture thereof.

1 9. The two-phase gel composition of claim 1, wherein the triblock copolymer is selected from the
2 group consisting of styrene-ethylene/propylene-styrene copolymers, styrene-ethylene/butadiene-styrene
3 copolymers, styrene-isoprene-styrene copolymers, styrene-butadiene-styrene copolymers, and a mixture
4 thereof.

1 10. The two-phase gel composition of claim 1, wherein the solvent is selected from the group
2 consisting of oils, mineral white oils, base oils, technical mineral oils, synthetic hydrocarbons, solid
3 hydrocarbons, semi-solid hydrocarbons, waxes, petroleum distillates, petrolatums, and combinations
4 thereof.

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1 15. The two-phase gel composition of claim 1, further comprising a suspended component.

1 16. The two-phase gel composition of claim 15, wherein the suspended component is a solid selected
2 from the group consisting of organic materials, inorganic materials, organometallic materials,
3 phosphorescent materials, and fluorescent materials.

1 17. The two-phase gel composition of claim 15, wherein the suspended component is a solid selected
2 from the group consisting of zinc oxide, coated zinc oxide, surface-treated zinc oxide, titanium dioxide,
3 coated titanium dioxide, surface-treated titanium dioxide, graphite, explosive materials, air-sensitive
4 chemicals, moisture-sensitive chemicals, boron nitride, iron oxides, talc, mica, plastics, polymers, silica,
5 silicon dioxide, aluminum oxide, metal particles, antibacterials, antibiotics, anesthetics, glass, clays, gums,
6 capsules containing an active ingredient, starch, modified starch, fragrances, color pigments, sunscreen
7 active particles, glitters, molybdenum oxide, zinc sulfide, copper-doped zinc sulfide, pesticides,
8 herbicides, fungicides, insecticides, plasticizers, medical materials, antimicrobials, antifungals, other
9 encapsulated materials, and combinations thereof.

1 18. The two-phase gel composition of claim 15, wherein the suspended component is a liquid
2 selected from the group consisting of water, water containing a water-soluble material, glycerin,
3 propylene glycol, butylene glycol, alcohols, acids, surfactants, emulsifiers, polyglycerols, ethers, polar
4 esters, fluorinated compounds, perfluoropolyethers, silicones, silicon-containing compounds, and

5 combinations thereof.

1 19. The two-phase gel composition of claim 15, wherein the suspended component is a gas selected
2 from the group consisting of hydrogen, chloride, air, nitrogen, oxygen, carbon dioxide, propane, neon,
3 helium, and combinations thereof.

1 20. The two-phase gel composition of claim 1, further comprising an active ingredient.

2 21. The two-phase gel composition of claim 20, wherein the active ingredient is selected from the
3 group consisting of sunscreens, antiperspirants, deodorants, perfumes, cosmetics, emollients, insect
4 repellants, pesticides, herbicides, fungicides, plasticizers, insecticides, and medicaments.

1 22. A two-phase gel composition, comprising:
2 a gelled composition selected from the group consisting of a gelled ether composition, a gelled
3 alcohol composition, a gelled naturally-occurring fats and oil composition, and a combination thereof,
4 said gelled composition comprising a mixture of an ether compound, an alcohol compound, or a gelled
5 naturally-occurring fats and oil composition and a polymer compound selected from the group consisting
6 of diblock copolymers, triblock copolymers, star polymers, radial polymers, multi-block copolymers, and
7 a combination thereof, the gelled composition having a viscosity η_1 ; and

8 a hydrophobic, non polar solvent, the solvent having a viscosity η_2 , wherein the two-phase gel
9 composition has a viscosity η which is greater than or equal to η_1 and which is greater than or equal to

10 η_2 .

1 23. The two-phase gel composition of claim 22, wherein the two-phase gel composition has a
2 viscosity which is substantially greater than or equal to the sum of η_1 and η_2 .

1 24. The two-phase gel composition of claim 22, wherein the alcohols include octyl dodecanol or
2 isostearyl alcohol.

1 25. The two-phase gel composition of claim 22, wherein the ethers include dicaprylyl ether or octyl
2 methoxycinnamate.

1 26. The two-phase gel composition of claim 22, wherein the naturally-occurring fats and oils include
2 linseed oil, soybean oil, sunflower seed oil, corn oil, sesame oil, olive oil, castor oil, coconut oil, palm oil,
3 peanut oil, jojoba oil, or macadamia nut oil.

1 27. The two-phase gel composition of claim 22, wherein the solvent is selected from the group
2 consisting of oils, mineral white oils, base oils, technical mineral oils, synthetic hydrocarbons, solid
3 hydrocarbons, semi-solid hydrocarbons, waxes, petroleum distillates, petrolatums, and combinations
4 thereof.

1 28. The two-phase gel composition of claim 22, wherein the gelled composition is present in the

2 amount of about 5% to about 95% by weight of the two-phase gel composition.

1 29. The two-phase gel composition of claim 22, wherein the gelled composition is present in the
2 amount of about 10% to about 40% by weight of the two-phase gel composition.

1 30. The two-phase gel composition of claim 22, wherein the solvent is present in the amount of about
2 5% to about 95% by weight of the two-phase gel composition.

1 31. The two-phase gel composition of claim 22, wherein the solvent is present in the amount of about
2 60% to about 90% by weight of the two-phase gel composition.

1 32. The two-phase gel composition of claim 22, further comprising a suspended component.

1 33. The two-phase gel composition of claim 32, wherein the suspended component is a solid selected
2 from the group consisting of organic materials, inorganic materials, organometallic materials,
3 phosphorescent materials, and fluorescent materials.

1 34. The two-phase gel composition of claim 32, wherein the suspended component is a solid selected
2 from the group consisting of zinc oxide, coated zinc oxide, surface-treated zinc oxide, titanium dioxide,
3 coated titanium dioxide, surface-treated titanium dioxide, graphite, explosive materials, air-sensitive
4 chemicals, moisture-sensitive chemicals, boron nitride, iron oxides, talc, mica, plastics, polymers, silica,

5 silicon dioxide, aluminum oxide, metal particles, antibacterials, antibiotics, anesthetics, glass, clays, gums,
6 capsules containing an active ingredient, starch, modified starch, fragrances, color pigments, sunscreen
7 active particles, glitters, molybdenum oxide, zinc sulfide, copper-doped zinc sulfide, pesticides,
8 herbicides, fungicides, insecticides, plasticizers; medical materials, antimicrobials, antifungals, other
9 encapsulated materials, and combinations thereof.

1 35. The two-phase gel composition of claim 32, wherein the suspended component is a liquid
2 selected from the group consisting of water, water containing a water-soluble material, glycerin,
3 propylene glycol, butylene glycol, alcohols, acids, surfactants, emulsifiers, polyglycerols, ethers, polar
4 esters, fluorinated compounds, perfluoropolyethers, silicones, silicon-containing compounds, and
5 combinations thereof.

1 36. The two-phase gel composition of claim 32, wherein the suspended component is a gas selected
2 from the group consisting of hydrogen, chloride, air, nitrogen, oxygen, carbon dioxide, propane, neon,
3 helium, and combinations thereof.

1 37. The two-phase gel composition of claim 22, further comprising an active ingredient.

1 38. The two-phase gel composition of claim 37, wherein the active ingredient is selected from the
2 group consisting of sunscreens, antiperspirants, deodorants, perfumes, cosmetics, emollients, insect
3 repellants, pesticides, herbicides, fungicides, plasticizers, insecticides, and medicaments.

1 39. A method of increasing the viscosity of a gelled composition comprising: mixing a gelled
2 composition selected from the group consisting of a gelled ester composition, a gelled ether composition,
3 a gelled alcohol composition, a gelled naturally-occurring fats and oil composition, and a combination
4 thereof with a hydrophobic, non-polar solvent to form a mixture; heating the mixture; agitating the
5 mixture until the mixture becomes homogeneous; and cooling the mixture to form a two-phase gel
6 composition, wherein the two-phase gel composition has a viscosity which is greater than or equal to the
7 viscosity of the gelled composition and which is greater than or equal to the viscosity of the solvent.

1 40. A method of increasing the viscosity of a gelled composition comprising: heating a gelled
2 composition selected from the group consisting of a gelled ester composition, a gelled ether composition,
3 a gelled alcohol composition, a gelled naturally-occurring fats and oil composition, and a combination
4 thereof; mixing the heated gelled composition with a hydrophobic, non-polar solvent to form a mixture;
5 agitating the mixture until the mixture becomes homogeneous; and cooling the mixture to form a two-
6 phase gel composition, wherein the two-phase gel composition has a viscosity which is greater than or
7 equal to the viscosity of the gelled composition and which is greater than or equal to the viscosity of the
8 solvent.

1 41. A method of increasing the viscosity of a gelled composition comprising: heating a hydrophobic,
2 non-polar solvent; mixing the heated solvent with a gelled composition selected from the group
3 consisting of a gelled ester composition, a gelled ether composition, a gelled alcohol composition, a

4 gelled naturally-occurring fats and oil composition, and a combination thereof to form a mixture;
5 agitating the mixture until the mixture becomes homogeneous; and cooling the mixture to form a two-
6 phase gel composition, wherein the two-phase gel composition has a viscosity which is greater than or
7 equal to the viscosity of the gelled composition and which is greater than or equal to the viscosity of the
8 solvent.

1 42. A method of increasing the viscosity of a gelled composition comprising: heating a hydrophobic,
2 non-polar solvent; separately heating a gelled composition selected from the group consisting of a gelled
3 ester composition, a gelled ether composition, a gelled alcohol composition, a gelled naturally-occurring
4 fats and oil composition, and a combination thereof; mixing the heated solvent with the heated gelled
5 composition to form a mixture; agitating the mixture until the mixture becomes homogeneous; and
6 cooling the mixture to form a two-phase gel composition, wherein the two-phase gel composition has a
7 viscosity which is greater than or equal to the viscosity of the gelled composition and which is greater
8 than or equal to the viscosity of the solvent.

1 43. A method of increasing the viscosity of a gelled composition comprising: mixing a gelled
2 composition selected from the group consisting of a gelled ester composition, a gelled ether composition,
3 a gelled alcohol composition, a gelled naturally-occurring fats and oil composition, and a combination
4 thereof with a hydrophobic, non-polar solvent to form a two-phase gel composition, wherein the two-
5 phase gel composition has a viscosity which is greater than or equal to the viscosity of the gelled
6 composition and which is greater than or equal to the viscosity of the solvent.

1 44. The method of claim 43, wherein the two-phase gel composition has a viscosity which is
2 substantially greater than or equal to the viscosity of the gelled composition and which is substantially
3 greater than or equal to the viscosity of the solvent.

1 45. The method of claim 43, wherein the two-phase gel composition has a viscosity which is
2 substantially greater than or equal to the sum of the viscosity of the gelled composition and the viscosity
3 of the solvent.

1 46. The method of claim 43, wherein the gelled ester composition comprises a mixture of an ester
2 compound and a polymer compound selected from the group consisting of triblock copolymers, star
3 polymers, radial polymers, multi-block copolymers, and a combination thereof.

1 47. The method of claim 43, wherein the gelled ether composition comprises a mixture of an ether
2 compound and a polymer compound selected from the group consisting of diblock copolymers, triblock
3 copolymers, star polymers, radial polymers, multi-block copolymers, and a combination thereof.

1 48. The method of claim 43, wherein the gelled alcohol composition comprises a mixture of an
2 alcohol compound and a polymer compound selected from the group consisting of diblock copolymers,
3 triblock copolymers, star polymers, radial polymers, multi-block copolymers, and a combination thereof.

- 1 49. The method of claim 43, wherein the gelled naturally-occurring fats and oil composition
2 comprises a mixture of a naturally-occurring fats and oil compound and a polymer compound selected
3 from the group consisting of diblock copolymers, triblock copolymers, star polymers, radial polymers,
4 multi-block copolymers, and a combination thereof.